

Wagner & Bonsignore

Consulting Civil Engineers, A Corporation

Working Copy

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January 25, 2010

Ms. Victoria Whitney
State Water Resources Control Board
P.O. Box 2000
Sacramento, California 95812-2000

31818

**Re: New Water Right Application for Universal Portfolio, LTD –
Sonoma County**

Dear Ms. Whitney:

On behalf of Universal Portfolio, LTD, we are submitting one signed original water right application and the required attachments. We have also enclosed an additional copy of the application; please return it to us after stamping in the application number.

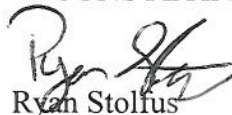
The Application requests the storage of 124 acre-feet of water in four existing reservoirs. The project and all its facilities have been previously named in Applications 30711 and 31187. The total amount sought under this application together with Applications 30711 and 31187 will not exceed 124 acre-feet. This purpose of this new Application is to allow for water to be diverted and rediverted between each of the four existing reservoirs. Water will be used for irrigation of 541 acres (the same lands named in A030711 and A031187) and for stockwatering purposes.

Enclosed is a check for \$2,710.00 for the State Water Board filing fees. Department of Fish and Game fees have already been paid for this project in conjunction with water right Applications 30711 and 31187.

Please contact me if you have any questions.

Very truly yours,

WAGNER & BONSIGNORE
CONSULTING CIVIL ENGINEERS


Ryan Stolfus

Encls. ✓

cc: Lloyd Buck (w/ encls.)

*Received
\$2,710.00
1/24/10
DR*



State Water Resources Control Board
Division of Water Rights

Tel: (916) 341-5300 Fax: (916) 341-5400

31818
APPLICATION NO.

Working Copy ~~SEN/KRM~~
 2010 JAN 26 PM 12:08
 DEPT. OF JUSTICE
 CIVIL RIGHTS DIVISION
 MEMPHIS

Received
\$2,710.00
1/26/10
GPR

4. PURPOSE OF USE, DIVERSION/STORAGE AMOUNT AND SEASON

a. PURPOSE OF USE (irrigation, domestic, etc.)	DIRECT DIVERSION				STORAGE		
	AMOUNT		SEASON OF DIVERSION		AMOUNT	SEASON OF COLLECTION	
	Rate (cfs or gpd)*	Acre-feet per annum	Beginning date (month & day)	Ending date (month & day)	Acre-feet per annum	Beginning date (month & day)	Ending date (month & day)
Irrigation } Stockwatering }					124*	11-1	5-31
Total afa			Total afa		124*		

☐ See Attachment No. ____ * If rate is less than 0.025 cubic feet per second (cfs), use gallons per day (gpd).

- b. Total combined amount taken by direct diversion and storage during any one year will be
124 acre-feet.
- c. Reservoir storage is: ☒ onstream ☐ offstream ☐ underground (If underground storage, attach Underground Storage Form.)
- d. County in which diversion is located: Sonoma County in which water will be used:
Sonoma

5. SOURCES AND POINTS OF DIVERSION/REDIVERSION

- a. Sources and Points of Diversion (POD)/Points of Rediversion (PORD):

☒ POD / ☒ PORD #1 Unnamed Stream tributary to
Petaluma River thence San Pablo Bay

☒ POD / ☒ PORD #2 Unnamed Stream tributary to
Stage Gulch thence Petaluma River thence San Pablo Bay

☒ POD / ☒ PORD #3 Unnamed Stream tributary to
Petaluma River thence San Pablo Bay

☒ POD / ☒ PORD #4 Unnamed Stream tributary to
Tolay Creek thence San Pablo Bay

If needed, attach additional pages, check box below and label attachment

☐ See Attachment No. ____

- b. State Planar and Public Land Survey Coordinate Description:

POD/ PORD #	CALIFORNIA COORDINATES (NAD 83)	ZONE	POINT IS WITHIN (40-acre subdivision)	SECTION	TOWN- SHIP	RANGE	BASE AND MERIDIAN
1	N 1,835,334 E 6,406,595	2	SE¼ of SE¼	8	T4N	R6W	M.D.
2	N 1,839,503 E 6,408,114	2	SW¼ of SW¼	4	T4N	R6W	M.D.
3	N 1,834,314 E 6,407,809	2	SW¼ of SW¼	9	T4N	R6W	M.D.
4	N 1,837,713 E 6,410,337	2	SW¼ of NE¼	9	T4N	R6W	M.D.

If needed, attach additional pages, check box below and label attachment

☐ See Attachment No. ____

- c. Name of the post office most often used by those living near the proposed point(s) of diversion:
Petaluma (94954)

*The total amount requested under this application together with A030711 and A031187.

6. WATER AVAILABILITY

- a. Have you attached a water availability analysis for this project? ☒ YES ☐ NO
If NO, provide sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation: If needed, attach additional pages, check box below and label attachment.

☒ See Attachment No. 2

- b. Is your project located on a stream system declared to be fully appropriated by the State Water Resources Control Board (State Water Board) during your proposed season of diversion?
☐ YES ☒ NO
- c. In an average year, does the stream dry up at any point downstream of your project? ☒ YES ☐ NO
If YES, during which months? ☐ Jan ☐ Feb ☐ Mar ☐ Apr ☐ May ☒ Jun ☒ Jul ☒ Aug ☐ Sep ☐ Oct ☐ Nov ☐ Dec
- d. What alternate sources of water are available if a portion of your requested diversion season must be excluded because water is not available for appropriation? (e.g., percolating groundwater, purchased water, etc.) If needed, attach additional pages, check box below and label attachment
None

☐ See Attachment No. ____

7. PLACE OF USE

a.

USE IS WITHIN (40-acre subdivision)	SECTION*	TOWNSHIP	RANGE	BASE & MERIDIAN	IF IRRIGATED	
					Acres	Presently cultivated?
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
Total Acres:						

*Please indicate if section is projected with a "(P)" following the section number.

☒ See Attachment No. 3 Please provide the Assessor's Parcel Number(s) for the place of use:
068-060-044, 068-060-052 through 068-060-054, 068-060-056, 068-060-060 through 068-060-065

8. PROJECT SCHEDULE

Project is: ☐ proposed, ☒ partially complete or ☐ complete (Year completed - 10 years after permit is granted).

Extent of completion: Reservoir #1 is fully constructed. Reservoir #2 will be expanded from 23 to 26 acre-feet.

Reservoir #3 will be expanded from 13 to 49 acre-feet. Reservoir #4 will be expanded from 11 to 12 acre-feet.

Approximately 100 acres of the 541 acre place of use has been planted. All water transfer facilities are existing.

Estimated amount of time in years it will take for construction to be completed: 9 years after permit is granted

Estimated amount of time in years it will take for water to be put to full beneficial use: 10 years after permit is granted

9. JUSTIFICATION OF AMOUNTS REQUESTED

- a. ☒ IRRIGATION: Maximum area to be irrigated in any one year: 541 acres.

CROP	ACRES	METHOD OF IRRIGATION (sprinklers, flooding, etc.)	WATER USE (Acre-feet/Yr.)	SEASON OF WATER USE	
				Beginning date (month & day)	Ending date (month & day)
Vineyard/Olives	541	Drip Irrigation	124	4-1	10-31

☐ See Attachment No. _____

- b. ☐ DOMESTIC: Number of residences to be served: _____ Separately owned?
☐ YES ☐ NO Number of people to be served: _____ Estimated daily use per person is:
 _____ gallons per day Area of domestic lawns and gardens: _____ square feet
 Incidental domestic uses:

 (dust control area, number and kind of domestic animals, etc.)

- a. ☒ STOCKWATERING: Kind of stock: cattle Maximum number: 50
 Describe type of operation: range

 (feedlot, dairy, range, etc.)

- d. ☐ RECREATIONAL: Type of recreation: ☐ Fishing ☐ Swimming ☐ Boating ☐ Other _____

- e. ☐ MUNICIPAL:

POPULATION List for 5-year periods until use is completed		MAXIMUM MONTH		ANNUAL USE		
Period	Population	Average daily use (gallons per capita)	Rate of diversion (cfs)	Average daily use (gallons per capita)	Acre-foot (per capita)	Total (acre-feet)
Present						

☐ See Attachment No. _____

Month of maximum use during year: _____

Month of minimum use during year: _____

- f. ☐ HEAT CONTROL: Area to be heat controlled: _____ net acres
 Type of crops protected: _____
 Rate at which water is applied to use: _____ gpm per acre
 Heat protection season will begin _____ and end _____
 (month and day) (month and day)
- g. ☐ FROST PROTECTION: Area to be frost protected: _____ net acres
 Type of crops protected: _____
 Rate at which water is applied to use: _____ gpm per acre
 The frost protection season will begin _____ and end _____
 (month & day) (month & day)
- h. ☐ INDUSTRIAL: Type of industry: _____

Basis for determination of amount of water needed: _____

- i. ☐ MINING: Name of the claim: _____ ☐ Patented ☐ Unpatented
 Nature of the mine: _____ Mineral(s) to be mined: _____
 Type of milling or processing: _____
 After use, the water will be discharged into _____ (watercourse)
 in _____ 1/4 of _____ 1/4 of Section _____, T _____, R _____, _____ B. & M.
- j. ☐ POWER: Total head to be utilized: _____ feet
 Maximum flow through the penstock: _____ cfs Maximum theoretical horsepower capable of
 being generated by the works (cfs x fall ÷ 8.8): _____
 Electrical capacity (hp x 0.746 x efficiency): _____ kilowatts at: _____ % efficiency
 After use, the water will be discharged into _____ (watercourse)
 in _____ 1/4 of _____ 1/4 of Section _____, T _____, R _____, _____ B&M. FERC No.: _____
- k. ☐ FISH AND WILDLIFE PRESERVATION AND/OR ENHANCEMENT: List specific species and
 habitat type that will be preserved or enhanced: _____
- l. ☐ OTHER: Describe use: _____
 Basis for determination of amount of water needed: _____

10. DIVERSION AND DISTRIBUTION METHOD

- a. Diversion will be by gravity by means of: Dam
 (dam, pipe in unobstructed channel, pipe through dam, siphon, weir, gate, etc.)
- b. Diversion will be by pumping from: _____
 (sump, offset well, channel, reservoir, etc)
 Pump discharge rate: _____ ☐ cfs or ☐ gpd Horsepower: _____
 Pump Efficiency: _____

- c. Conduit from diversion point to first lateral or to offstream storage reservoir:

CONDUIT (pipe or channel)	MATERIAL (type of pipe or channel lining; indicate if pipe is buried or not)	CROSS-SECTION (pipe diameter, or ditch depth and top and bottom width) (inches or feet)	LENGTH (feet)	TOTAL LIFT OR FALL		CAPACITY (cfs, gpd or gpm)
				feet	+ or -	

☒ See Attachment No. 4 (All pipeline and water transfer facilities are existing.)

- d. Storage reservoirs: (For underground storage, complete and attach underground storage form)

RESERVOIR NAME OR NUMBER	DAM				RESERVOIR		
	Vertical height from downstream toe of slope to spillway level (feet)	Construction material	Length (feet)	Freeboard: dam height above spillway crest (feet)	Surface area when full (acres)	Capacity (acre-feet)	Maximum water depth (feet)

☒ See Attachment No. 5

e. Outlet pipe: Complete for storage reservoirs having a capacity of 10 acre-feet or more.

RESERVOIR NAME OR NUMBER	OUTLET PIPE				
	Diameter in inches	Length in feet	Fall: Vertical distance between entrance and exit of outlet pipe in feet	Head: Vertical distance from spillway to entrance of outlet pipe in feet	Dead Storage: Storage below entrance of outlet pipe in acre-feet

☒ See Attachment No. 6

e. If water will be stored and the reservoir is not at the point of diversion, the maximum rate of diversion to off-stream storage will be 1 cfs. Diversion to offstream storage will be made by:

☒ Pumping ☐ Gravity

11. CONSERVATION AND MONITORING

a. What methods will you use to conserve water? Explain.

Drip irrigation system will be used.

b. How will you monitor your diversion to be sure you are within the limits of your water right and you are not wasting water? ☐ Weir ☒ Meter ☐ Periodic sampling ☒ Other (describe)
staff gages in ponds

12. RIGHT OF ACCESS

a. Does the applicant own all the land where the water will be diverted, transported and used?

☒ YES ☐ NO

If NO, I ☐ do ☐ do not have a recorded easement or written authorization allowing me access.

b. List the names and mailing addresses of all affected landowners and state what steps are being taken to obtain access:

☐ See Attachment No. _____

13. EXISTING WATER RIGHTS AND RELATED FILINGS

a. Do you claim an existing right for the use of all or part of the water sought by this application?

☒ YES ☐ NO

If YES, please specify: ☐ Riparian ☐ Pre-1914 ☐ Registration ☐ Permit ☒ License

☐ Percolating groundwater ☐ Adjudicated ☐ Other (specify) _____

b. For each existing right claimed, state the source, year of first use, purpose, season and location of the point of diversion (to within quarter-quarter section). Include number of registration, permit, license, or statement of water diversion and use, if applicable.

License 13128 - See files of State Water Resources Control Board.

☐ See Attachment No. _____

- c. List any related applications, registrations, permits, or licenses located in the proposed place of use or that utilize the same point(s) of diversion.
License 13128 (Application 28857), Application 30711, Application 31187

☐ See Attachment No. _____

14. OTHER SOURCES OF WATER

Are you presently using, or do you intend to use, purchased water or water supplied by contract in connection with this project? ☐ Yes ☒ No If yes, please explain: _____

15. MAP REQUIREMENTS

The Division cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the quarter/quarter, section, township, range, and meridian of (1) the proposed points of diversion and (2) the place of use. A copy of a U.S.G.S. quadrangle/topographic map of your project area is preferred, and can be obtained from sporting goods stores or through the Internet at <http://topomaps.usgs.gov>. A certified engineering map is required when (1) appropriating more than three cubic feet per second by direct diversion, (2) constructing a dam which will be under the jurisdiction of the Division of Safety of Dams, (3) creating a reservoir with a surface area in excess of ten acres or (4) appropriating more than 1,000 acre-feet per annum by underground storage. See the instruction booklet for more information.

☒ See Attachment No. 7

ENVIRONMENTAL INFORMATION

Note: Before a water right permit may be issued for your project, the State Water Board must consider the information contained in an environmental document prepared in compliance with the California Environmental Quality Act (CEQA). This form is not a CEQA document. If a CEQA document has not yet been prepared for your project, a determination must be made of who is responsible for its preparation. If the State Water Board is determined to be responsible for preparing the CEQA document, the applicant will be required to pay all costs associated with the environmental evaluation and preparation of the required documents. Please answer the following questions to the best of your ability and submit with this application any studies that have been conducted regarding the environmental evaluation of your project.

16. COUNTY PERMITS

- a. Contact your county planning or public works department and provide the following information:

Person contacted: www.sonoma-county.org/prmd/docs/zoning_data Date of contact: _____
Department: _____ Telephone: (____) _____
County Zoning Designation: _____
See Attachment No. 8

Are any county permits required for your project? ☒ YES ☐ NO If YES, check appropriate box below:

☒ Grading permit ☐ Use permit ☐ Watercourse ☐ Obstruction permit ☐ Change of zoning
☐ General plan change ☐ Other (explain): _____

- b. Have you obtained any of the required permits described above? ☐ YES ☒ NO

If YES, provide a complete copy of each permit obtained.

☐ See Attachment No. _____

17. STATE/FEDERAL PERMITS AND REQUIREMENTS

a. Check any additional state or federal permits required for your project:

☐ Federal Energy Regulatory Commission ☐ U.S. Forest Service ☐ U.S. Bureau of Land Management ☒ U.S. Corps of Engineers ☐ U.S. Natural Res. Conservation Service ☒ Calif. Dept. of Fish and Game ☐ State Lands Commission ☐ Calif. Dept. of Water Resources (Div. of Safety of Dams) ☐ Calif. Coastal Commission ☐ State Reclamation Board ☒ Other (specify) Regional Water Quality Control Board

b. For each agency from which a permit is required, provide the following information:

AGENCY	PERMIT TYPE	PERSON(S) CONTACTED	CONTACT DATE	TELEPHONE NO.
Dept. of Fish & Game	Streambed Alt. Agreement			
U.S. Corps of Engrs.	Section 404 Clean Water Act			
RWQCB	Section 401 Clean Water Act			

☐ See Attachment No. _____

c. Does your proposed project involve any construction or grading-related activity that has significantly altered or would significantly alter the bed, bank, or riparian habitat of any stream or lake? ☒ YES ☐ NO

If YES, explain:

Enlargement of Reservoirs #2, #3, and #4.

☐ See Attachment No. _____

b. Have you contacted the California Department of Fish and Game concerning your project?

☐ YES ☒ NO If YES, name, telephone number and date of contact:

18. ENVIRONMENTAL DOCUMENT

a. Has any California public agency prepared an environmental document for your project?

*** ☒ YES ☐ NO

b. If YES, submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the California public agency. Public agency:

c. If NO, check the appropriate box and explain below, if necessary:

☐ The applicant is a California public agency and will be preparing the environmental document.*

*** ☒ I expect that the State Water Board will be preparing the environmental document.**

☐ I expect that a California public agency other than the State Water Board will be preparing the environmental document.* Public agency: _____

☐ See Attachment No. _____

* Note: When completed, submit a copy of the final environmental document (including notice of determination) or notice of exemption to the State Water Board, Division of Water Rights and proof of payment of the State Clearinghouse filing fee. Processing of your application cannot be completed until these documents are submitted.

** Note: CEQA requires that the State Water Board, as Lead Agency, prepare the environmental document. The information contained in the environmental document must be developed by the applicant and at the applicant's expense under the direction of the State Water Board, Division of Water Rights.

*** The environmental consultant firm of AES is currently preparing the environmental document for Applications 30711 and 31187.

19. WASTE/WASTEWATER

- a. Will your project, during construction or operation, (1) generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation? ☐ YES ☒ NO

If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality Control Board for the following information (See instruction booklet for address and telephone no.):

☐ See Attachment No. ____

- b. Will a waste discharge permit be required for your project? ☐ YES ☒ NO

Person contacted: _____ Date of contact: _____

- c. What method of treatment and disposal will be used? _____

☐ See Attachment No. ____

20. ARCHEOLOGY

- a. Have any archeological reports been prepared on this project? ☒ YES ☐ NO
- b. Will you be preparing an archeological report to satisfy another public agency? ☐ YES ☒ NO
- c. Do you know of any archeological or historic sites located within the general project area?
☐ YES ☒ NO If YES, explain:

☐ See Attachment No. ____

21. ENVIRONMENTAL SETTING **Photographs are on file pursuant to Applications 30711 and 31187.*

Attach **two complete sets of color photographs**, clearly dated and labeled, showing the vegetation that exists at the following three locations:

- * ☐ Along the stream channel immediately downstream from the proposed point(s) of diversion.
- * ☐ Along the stream channel immediately upstream from the proposed point(s) of diversion.
- * ☐ At the place(s) where the water is to be used.

☐ See Attachment No. ____

SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the Streamflow Protection Standards review fee [Pub. Resources Code § 10005(a)], payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. If the application fees are not received, your application will not be accepted and will be returned to you. Please check the fee schedule for any fee changes prior to submitting the application.

DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application.

John Buck

Signature of Applicant

Manager

Title or Relationship

1/20/10

Date

Signature of Co-Applicant (if any)

Title or Relationship

Date

Applications that are not completely filled out and/or do not have the appropriate fees will not be accepted. In the event that the Division has to return the application because it is incomplete, a portion of the application submittal fee will be charged for the initial review.

"APPLICATION TO APPROPRIATE WATER" CHECKLIST

Before you submit your application, be sure to:

- ☐ Answer each question completely.
- ☐ Number, label and include all necessary attachments.
- ☐ Include a legible map that meets the requirements discussed in the instruction booklet.
- ☐ Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation.
- ☐ Include two complete sets of color photographs of the project site.
- ☐ Enclose a check for the required fee, payable to the Division of Water Rights.
- ☐ Enclose an \$850 check for the Streamflow Protection Standards review fee, payable to the Department of Fish and Game.
- ☐ Sign and date the application.

Send the original and one copy of the entire application to:

State Water Resources Control Board
Division of Water Rights
P.O. Box 2000
Sacramento, CA 95812-2000

Attachments to Accompany
Water Right Application
Universal Portfolio, LTD

Attachment #1

3. Project Description

This project consists of the collection and storage of a total of 124 acre-feet of water within four existing reservoirs on the Applicant's property for purposes of irrigation and stockwatering. The total amount requested under this application together with Applications 30711 and 31187 is 124 acre-feet. Water will be used for irrigation of 541 acres within the ranch identified within Attachment #7. Stockwatering will take place at the four project reservoirs (also identified on Attachment #7). Currently 88 acres of vineyard and 12 acres of olives are planted within the proposed place of use, and the current capacities of the four reservoirs total 84 acre-feet.

The reservoir at POD #1 has an existing capacity of 37 acre-feet, and it will not be enlarged; it is a proposed point of diversion by collection to storage under Water Right Application 30711. The reservoir at POD #2 has an existing capacity of 23 acre-feet and is proposed to be enlarged to 26 acre-feet; it is a proposed point of diversion by collection to storage under Water Right Application 30711. The reservoir at POD #3 has an existing capacity of 13 acre-feet and is proposed to be enlarged to 49 acre-feet; it is a point of diversion by collection to storage under License 13128 (Application 28857) and a proposed point of diversion by collection to storage under Water Right Application 31187. The reservoir at POD #4 has an existing capacity of 11 acre-feet and is proposed to be enlarged to 12 acre-feet; it is a proposed point of diversion by collection to storage under Water Right Application 31187.

All four reservoirs are on-stream facilities, which, under this application, are proposed points of diversion by collection to storage, points of diversion to offstream storage in each of the other three reservoirs, and points of rediversion from each of the other three reservoirs. All pipelines and water transfer facilities are existing facilities.

Attachment #2

6. Water Availability
See separate attachment.

ATTACHMENT 2

Estimate of Water Availability to Accompany Water Right Application of Universal Portfolio, LTD

California Water Code Section 1260(k) requires that every application for a permit to appropriate water shall include “sufficient information to demonstrate a reasonable likelihood that unappropriated water is available for the proposed appropriation.” This narrative and accompanying calculations provide the required information.

The subject Application includes four reservoirs as follows:

POD #	Source Description	Proposed Storage Capacity (af)
1	Unnamed stream tributary to the Petaluma River	37
2	Unnamed stream tributary to Stage Gulch thence the Petaluma River	26
3	Unnamed Stream tributary to the Petaluma River	49
4	Unnamed Stream tributary to Tolay Creek	12
Total		124

The subject Application is within the watersheds of the Petaluma River and Tolay Creek in Sonoma County (see attached Plate I). According to State Water Resources Control Board Order WR 98-08, there are no fully appropriated limitations on the subject watersheds. The Application proposes a diversion season of November 1 to May 31, which conforms to Order WR 98-08. The following describes the methodology used to demonstrate a *reasonable* likelihood that water is physically available for the proposed appropriation.

Plate I shows the proposed points of diversion and the watershed areas tributary thereto. The map also shows lines of equal mean annual precipitation as shown on the map entitled *Mean Annual Precipitation in the California Region*, by S.E. Rantz, 1972 (Rantz map). An excerpt of this map is included as Attachment A. Also shown on Plate I are estimated lines of mean annual precipitation interpolated from the Rantz map.

The average seasonal runoff tributary to each point of diversion (POD) can be estimated based on adjustment of flow data recorded at a nearby streamflow gaging by the U.S. Geological Survey. The closest USGS gaged watershed with a significant length of record is Sonoma Creek At Agua Caliente (USGS #11458500), also shown on Plate I. Table 1 summarizes the monthly discharge of Sonoma Creek as recorded at that gage for the period of March 1955 to September 1981, and October 2001 to September 2008 (33 complete water years). The average seasonal runoff at the application PODs can be

estimated by multiplying the Sonoma Creek gage record by ratios that account for the difference in drainage area and mean annual precipitation between the gaged watershed and the watersheds of interest.

The table below summarizes this calculation. The Sonoma Creek gaged watershed has a drainage area of about 37,162 acres, a mean annual precipitation of about 47.03 inches (based on evaluation of the Rantz map), and an average discharge during the proposed diversion season of 50,924 acre-feet. The drainage area for each POD and the mean annual precipitation over each area was estimated from the USGS 7.5-minute quad map and is shown in the table below.

The average seasonal discharge at the PODs was then estimated by ratio, that is,

$$Q_2 = Q_1 \times (A_2/A_1) \times (MAP_2/MAP_1)$$

where:

Q_2 = Flow at point of interest;

Q_1 = Flow at gage;

A_2 = Drainage area above point of interest;

A_1 = Drainage area above gage;

MAP_2 = Area-weighted mean annual precipitation for watershed above point of interest;

MAP_1 = Area-weighted mean annual precipitation for watershed above gage.

Watershed	Drainage Area (acres)	Mean Annual Precipitation (inches)	Average Discharge Nov 1 - May 31 (ac-ft/season)
Sonoma Cr gage	37,162	47.03	50,924
POD #1	64	22.15	41
POD #2	53	22.39	35
POD #3	94	22.06	60
POD #4	14	22.13	9
Sum of POD watersheds	225	-	145

The Applicant holds existing rights and/or pending applications on the subject reservoirs and the amounts set forth in this Application include the existing and pending amounts. There are no other water rights upstream of the subject PODs.

These calculations conclude that an average of 145 acre-feet would be available to the combination of PODs #1 through #4. This amount exceeds the applied-for total of 124 acre-feet, therefore, there is a reasonable likelihood that water is available for the subject application.



Excerpt of *Mean Annual Precipitation in the California Region* by S. E. Rantz, dated 1972.

TABLE 1
USGS Gage #11458500 Sonoma Creek at Agua Caliente, CA
Monthly Flow (acre-feet)

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1955	-	-	-	-	-	941	2,315	627	116	14	0	17	4,029
1956	67	176	45,323	33,493	27,685	3,874	1,601	1,113	341	98	32	8	113,809
1957	260	164	200	935	6,337	6,979	1,523	2,453	499	51	3	53	19,456
1958	1,162	381	4,298	11,560	42,542	18,428	24,867	1,156	500	250	77	82	105,304
1959	56	123	191	5,122	11,557	1,414	383	70	6	0	0	240	19,164
1960	3	13	59	2,011	17,262	10,182	2,356	464	97	43	40	11	32,541
1961	18	156	1,101	3,253	7,020	5,436	1,452	343	107	15	0	0	18,901
1962	0	71	3,050	2,841	24,176	9,783	1,113	344	116	36	20	5	41,554
1963	8,000	543	5,300	10,736	12,096	8,233	14,912	1,869	481	242	161	57	62,630
1964	93	2,422	892	7,034	995	879	390	213	133	61	29	7	13,148
1965	23	1,648	21,084	21,281	2,816	1,168	6,736	1,427	409	131	112	76	56,912
1966	58	1,339	3,911	24,829	8,342	2,976	1,357	491	219	101	61	42	43,725
1967	32	2,981	14,044	37,422	7,248	11,461	14,007	2,404	1,142	387	194	103	91,426
1968	144	364	1,273	9,795	11,832	7,760	1,517	419	174	81	69	42	33,470
1969	80	464	8,621	38,111	27,069	8,301	2,398	830	328	145	114	43	86,504
1970	166	224	13,023	48,656	6,665	5,503	1,142	422	234	73	41	25	76,175
1971	196	8,152	30,006	7,108	1,555	4,544	1,934	713	248	74	42	26	54,599
1972	38	174	1,820	2,300	2,957	1,451	881	313	82	22	25	22	10,083
1973	253	3,963	4,310	41,044	22,637	9,254	1,720	544	152	125	59	37	84,098
1974	81	13,841	11,486	19,781	3,643	20,420	10,931	873	385	357	129	87	82,016
1975	67	149	836	1,334	22,893	23,858	2,690	849	298	146	74	66	53,260
1976	271	227	281	181	437	1,211	503	109	54	0	12	10	3,297
1977	29	124	155	151	123	318	46	52	4	0	0	0	1,001
1978	15	2,904	5,884	35,928	16,989	12,513	4,261	965	373	110	61	87	80,090
1979	56	67	93	12,488	10,958	6,524	1,958	959	189	82	46	30	33,449
1980	511	1,345	7,674	24,681	32,551	8,510	1,505	595	234	106	97	77	77,887
1981	80	79	1,488	8,756	2,799	5,368	1,119	221	136	56	28	23	20,153
2002	27	2,821	23,046	17,032	3,727	4,931	1,113	611	215	85	57	19	53,684
2003	52	306	33,339	9,303	2,927	2,699	3,868	3,388	607	160	85	52	56,787
2004	67	186	13,798	8,897	21,870	3,591	952	352	139	68	26	5	49,951
2005	228	329	15,846	13,982	7,126	14,081	4,380	5,946	1,166	342	139	64	63,628
2006	92	204	38,307	20,888	11,352	27,012	22,225	1,863	744	165	143	93	123,089
2007	135	253	2,736	836	10,247	2,613	756	362	117	39	16	7	18,116
2008	26	35	744	23,187	12,010	1,980	544	213	65	33	11	1	38,853
Average	375	1,401	9,522	15,302	12,135	7,476	4,102	988	297	109	59	45	51,809

Notes:

Source: USGS National Water Information System, Surface Water Data (<http://waterdata.usgs.gov/nwis/sw>), accessed January 28, 2009.

Attachments to Accompany
Water Right Application
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Attachment #3

7. Place of Use

Use is Within	Projected Section	Township	Range	B.&M.	Acres	Previously Cultivated
NE1/4 of SW1/4	4	T4N	R6W	M.D.	1	No
NW1/4 of SW1/4	4	T4N	R6W	M.D.	1	No
SE1/4 of SW1/4	4	T4N	R6W	M.D.	19	No
SW1/4 of SW1/4	4	T4N	R6W	M.D.	16	No
NE1/4 of NE1/4	8	T4N	R6W	M.D.	5	Partially
NE1/4 of SE1/4	8	T4N	R6W	M.D.	29	Partially
NW1/4 of SE1/4	8	T4N	R6W	M.D.	23	No
SE1/4 of NE1/4	8	T4N	R6W	M.D.	31	No
SE1/4 of SE1/4	8	T4N	R6W	M.D.	27	Partially
SE1/4 of SW1/4	8	T4N	R6W	M.D.	4	No
SW1/4 of NE1/4	8	T4N	R6W	M.D.	2	No
SW1/4 of SE1/4	8	T4N	R6W	M.D.	30	Partially
NE1/4 of NW1/4	9	T4N	R6W	M.D.	35	No
NE1/4 of SW1/4	9	T4N	R6W	M.D.	33	No
NW1/4 of NE1/4	9	T4N	R6W	M.D.	11	No
NW1/4 of NW1/4	9	T4N	R6W	M.D.	33	Partially
NW1/4 of SE1/4	9	T4N	R6W	M.D.	11	No
NW1/4 of SW1/4	9	T4N	R6W	M.D.	31	Partially
SE1/4 of NW1/4	9	T4N	R6W	M.D.	23	Partially
SE1/4 of SE1/4	9	T4N	R6W	M.D.	16	No
SE1/4 of SW1/4	9	T4N	R6W	M.D.	9	No
SW1/4 of NE1/4	9	T4N	R6W	M.D.	11	No
SW1/4 of NW1/4	9	T4N	R6W	M.D.	27	Partially
SW1/4 of SE1/4	9	T4N	R6W	M.D.	24	No
SW1/4 of SW1/4	9	T4N	R6W	M.D.	17	Partially
NE1/4 of NE1/4	16	T4N	R6W	M.D.	9	No
NW1/4 of NE1/4	16	T4N	R6W	M.D.	1	No
NW1/4 of NW1/4	16	T4N	R6W	M.D.	7	Yes
NE1/4 of NE1/4	17	T4N	R6W	M.D.	28	Partially
NE1/4 of NW1/4	17	T4N	R6W	M.D.	1	No
NW1/4 of NE1/4	17	T4N	R6W	M.D.	26	Partially

Total 541

Attachments to Accompany
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Attachment #4

10c. Conduit from Diversion Point to First Lateral or to Offstream Storage Reservoir

Point of Diversion	Point of Rediversion	Conduit Type	Material	Diameter (inches)	Length (feet)	Total Lift or Fall		Capacity (cfs)
						feet	+ or -	
POD #1	POD #2	Pipe	PVC (Buried)	6	6,550	120	+	1.0
POD #1	POD #3	Pipe	PVC (Buried)	3 to 6	8,750	25	+	0.5
POD #1	POD #4	Pipe	PVC (Buried)	3 to 6	6,750	190	+	0.5
POD #2	POD #1	Pipe	PVC (Buried)	6	6,550	120	-	1.0
POD #2	POD #3	Pipe	PVC (Buried)	3 to 6	8,150	95	-	0.5
POD #2	POD #4	Pipe	PVC (Buried)	3 to 6	6,150	70	+	0.5
POD #3	POD #1	Pipe	PVC (Buried)	3 to 6	8,750	25	-	0.5
POD #3	POD #2	Pipe	PVC (Buried)	3 to 6	8,150	95	+	0.5
POD #3	POD #4	Pipe	PVC (Buried)	3	3,950	165	+	0.5
POD #4	POD #1	Pipe	PVC (Buried)	3 to 6	6,750	190	-	0.5
POD #4	POD #2	Pipe	PVC (Buried)	3 to 6	6,150	70	-	0.5
POD #4	POD #3	Pipe	PVC (Buried)	3	3,950	165	-	0.5

Attachment #5

10d. Storage Reservoirs

	Dam				Reservoir		
Place of Storage	Vertical Ht (ft)	Construction material	Dam Length (ft)	Freeboard (ft)	Surface Area (Ac)	Proposed capacity (AF)	Max water depth (ft)
#1	20	Earth	530	2	3.8	37	18
#2	18.5	Earth	220	4	3.3	26	15
#3	18	Earth	460	5.4	3.0	49	24
#4	28.3	Earth	360	3	0.9	12	23
Total Storage Capacity						124	

Attachment #6

10e. Outlet Pipe

Reservoirs are existing and dewatering will be accomplished by pumping.

Attachments to Accompany
Water Right Application
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Attachment #7

15. Map
See separate attachment.

Attachment #8

- 16a. County Zoning Designation

Sonoma County
Assessors Parcels

Zoning Designation

068-060-044	LEA	B6	60	SR	VOH		
068-060-052	DA	B6	20	SR			
068-060-053	DA	B6	20	SR			
068-060-054	DA	B6	20	SR	VOH		
068-060-056	LEA	B6	60	SR	VOH		
068-060-060	DA	B7	Z	SR	VOH		
068-060-061	DA	B6	20/2	(Ac/DU)/Ac MIN	SR	VOH	
068-060-062	DA	B6	20/2	(Ac/DU)/Ac MIN	SR	VOH	
068-060-063	DA	B6	20/2	(Ac/DU)/Ac MIN	SR	VOH	
068-060-064	DA	B6	20/2	(Ac/DU)/Ac MIN	SR	VOH	
068-060-065	DA	B6	20/2	(Ac/DU)/Ac MIN	SR	VOH	